

Index of Authors

VOLUME 93 (EMG & Motor Control), 1994

(Abstracts from Society Proceedings are not included)

- Alvarez, R., see Valls-Solé, J. (93) 421
Amassian, V.E., Maccabee, P.J., Cracco, R.Q., Cracco, J.B., Somasundaram, M., Rothwell, J.C., Eberle, L., Henry, K. and Rudell, A.P.
The polarity of the induced electric field influences magnetic coil inhibition of human visual cortex: implications for the site of excitation (93) 21
Amassian, V.E., see Roth, B.J. (93) 68
Anselmi, G.D., see Roth, B.J. (93) 68

Barker, A.T., see Loening-Baucke, V. (93) 35
Battistini, N., see Rossi, S. (93) 330
Belting, C., see Timmann, D. (93) 7
Bischoff, C., Machetanz, J., Meyer, B.-U. and Conrad, B.
Repetitive magnetic nerve stimulation: technical considerations and clinical use in the assessment of neuromuscular transmission (93) 15
Bisdorff, A.R., Bronstein, A.M. and Gresty, M.A.
Responses in neck and facial muscles to sudden free fall and a startling auditory stimulus (93) 409
Bombardi, R., see Valzania, F. (93) 312
Borg, J., see Odergren, T. (93) 325
Bour, L.J., see Hilgevoord, A.A.J. (93) 202
Bour, L.J., see Willemse, R.B. (93) 440
Brand, R.A., see Gabel, R.H. (93) 188
Brasil-Neto, J.P., see Pascual-Leone, A. (93) 230
Brasil-Neto, J.P., see Pascual-Leone, A. (93) 42
Bronstein, A.M., see Bisdorff, A.R. (93) 409
Brunhölzl, C., see Claus, D. (93) 417
Brunko, E., see Mavrouidakis, N. (93) 428
Busch, H., see Husstedt, I.W. (93) 169

Cadwell, J., see Roth, B.J. (93) 68
Caroyer, J.M., see Mavrouidakis, N. (93) 428
Cioni, R., see Rossi, S. (93) 330
Claus, D. and Brunhölzl, C.
Facilitation and disfacilitation of muscle responses after repetitive transcranial cortical stimulation and electrical peripheral nerve stimulation (93) 417
Clouston, P., see Kiers, L. (93) 255
Clouston, P.D., Kiers, L., Zuniga, G. and Cros, D.
Quantitative analysis of the compound muscle action potential in early acute inflammatory demyelinating polyneuropathy (93) 245
Cohen, L.G., see Pascual-Leone, A. (93) 230
Cohen, L.G., see Pascual-Leone, A. (93) 42
Conrad, B., see Bischoff, C. (93) 15
Cox, C., see Toro, C. (93) 390
Cracco, J.B., see Amassian, V.E. (93) 21
Cracco, R.Q., see Amassian, V.E. (93) 21
Cros, D., see Clouston, P.D. (93) 245
Cros, D., see Kiers, L. (93) 255

De Haan, G.-J., see Ruijten, M.W.M.M. (93) 306
De la Barrera, E.J. and Milner, T.E.
The effects of skinfold thickness on the selectivity of surface EMG (93) 91
Dengler, R., see Kossev, A. (93) 100
Deuschl, G., see Toro, C. (93) 380
De Weerd, A.W., Nihom, J., Rozeman, C.A.M., Poortvliet, D.C.J., Jonkman, E.J., Van der Maas, A.P.C. and Tjandra, Y.I.
H reflexes as a measure for uremic polyneuropathy. A longitudinal study in patients treated with dialysis or renal transplantation (93) 276
Diener, H.C., see Timmann, D. (93) 7
Dietz, V., Discher, M. and Trippel, M.
Task-dependent modulation of short- and long-latency electromyographic responses in upper limb muscles (93) 49
Di Lazzaro, V., Molinari, M., Restuccia, D., Leggio, M.G., Nardone, R., Fogli, D. and Tonali, P.
Cerebro-cerebellar interactions in man: neurophysiological studies in patients with focal cerebellar lesions (93) 27
Discher, M., see Dietz, V. (93) 49

Eberle, L., see Amassian, V.E. (93) 21
Eberle, L.P., see Roth, B.J. (93) 68
Ebner, T.J., see Toro, C. (93) 390
Eisen, A., see Mortifee, P. (93) 131
Elek, J.M., see Kossev, A. (93) 100

Favale, E., see Leandri, M. (93) 240
Fawcett, P., see Johnsen, B. (93) 155
Fellows, S.J., Kaus, C., Ross, H.F. and Thilmann, A.F.
Agonist and antagonist EMG activation during isometric torque development at the elbow in spastic hemiparesis (93) 106
Fogli, D., see Di Lazzaro, V. (93) 27
Fong, J.K.Y., see Werhahn, K.J. (93) 138
Frank, C., see Leonard, C.T. (93) 209
Friebs, G., see Toro, C. (93) 390
Fuglsang-Frederiksen, A., see Østergaard, L. (93) 434
Fuglsang-Frederiksen, A., see Jensen, R. (93) 175
Fuglsang-Frederiksen, A., see Jensen, R. (93) 335
Fuglsang-Frederiksen, A., see Johnsen, B. (93) 155

Gabel, R.H. and Brand, R.A.
The effects of signal conditioning on the statistical analyses of gait EMG (93) 188
Galante, M., see Schieppati, M. (93) 286
Gates, J.R., see Toro, C. (93) 390
Giannini, F., see Rossi, S. (93) 330
Glocker, F.X., Magistris, M.R., Rösler, K.M. and Hess, C.W.
Magnetic transcranial and electrical stylomastoidal stimulation of the facial motor pathways in Bell's palsy: time course and relevance of electrophysiological parameters (93) 113
Gootzen, T.H.J.M., see Stegeman, D.F. (93) 81
Gracies, J.M., Pierrot-Deseilligny, E. and Robain, G.
Evidence for further recruitment of group I fibres with high stimulus intensities when using surface electrodes in man (93) 353

- Graetzer, D.G., see Leonard, C.T. (93) 209
 Grasso, M., see Schieppati, M. (93) 286
 Gresty, M.A., see Bisdorff, A.R. (93) 409
 Grottemeyer, K.H., see Husstedt, I.W. (93) 169
 Gumnit, R.J., see Toro, C. (93) 390
- Hallett, M., see Panizza, M. (93) 147
 Hallett, M., see Pascual-Leone, A. (93) 230
 Hallett, M., see Pascual-Leone, A. (93) 42
 Hallett, M., see Roth, B.J. (93) 68
 Hallett, M., see Toro, C. (93) 380
 Hanajima, R., see Ugawa, Y. (93) 225
 Hashimoto, I., Mashiko, T., Mizuta, T., Imada, T., Iwase, K. and Okazaki, H.
 Visualization of a moving quadrupole with magnetic measurements of peripheral nerve action fields (93) 459
 Henry, K., see Amassian, V.E. (93) 21
 Hess, C.W., see Glocker, F.X. (93) 113
 Hilgevoord, A.A.J., Koelman, J.H.T.M., Bour, L.J. and Ongerboer de Visser, B.W.
 Normalization of soleus H-reflex recruitment curves in controls and a population of spastic patients (93) 202
 Hishikawa, Y., see Shimizu, T. (93) 345
 Hugon, M., see Schieppati, M. (93) 286
 Husstedt, I.W., Grottemeyer, K.H., Busch, H. and Zidek, W.
 Early detection of distal symmetrical polyneuropathy during HIV infection by paired stimulation of sural nerve (93) 169
- Imada, T., see Hashimoto, I. (93) 459
 Inagaki, M., see Maegaki, Y. (93) 318
 Iwase, K., see Hashimoto, I. (93) 459
- Jensen, R. and Fuglsang-Frederiksen, A.
 Quantitative surface EMG of pericranial muscles. Relation to age and sex in a general population (93) 175
 Jensen, R., Fuglsang-Frederiksen, A. and Olesen, J.
 Quantitative surface EMG of pericranial muscles in headache. A population study (93) 335
 Johnsen, B., Fuglsang-Frederiksen, A., Vingtoft, S., Fawcett, P., Liguori, R., Nix, W., Otte, G., Proença, J., Schofield, I., Sieben, G., Veloso, M. and Vila, A.
 Differences in the handling of the EMG examination at seven European laboratories (93) 155
 Jonkman, E.J., see De Weerd, A.W. (93) 276
 Jost, W.H. and Schimrigk, K.
 A new method to determine pudendal nerve motor latency and central motor conduction time to the external anal sphincter (93) 237
- Kaluzny, P., Palmeri, A. and Wiesendanger, M.
 The problem of bimanual coupling: a reaction time study of simple unimanual and bimanual finger responses (93) 450
 Kanazawa, I., see Ugawa, Y. (93) 225
 Kanbayashi, T., see Shimizu, T. (93) 345
 Kane, J., see Leonard, C.T. (93) 209
 Kasai, T. and Kawai, K.
 Quantitative EMG analysis of anticipatory postural adjustments of voluntary contraction of leg muscles in standing man (93) 184
 Kaus, C., see Fellows, S.J. (93) 106
 Kawai, K., see Kasai, T. (93) 184
 Kiers, L., Clouston, P., Zuniga, G. and Cros, D.
 Quantitative studies of F responses in Guillain-Barré syndrome and chronic inflammatory demyelinating polyneuropathy (93) 255
 Kiers, L., see Clouston, P.D. (93) 245
 Kingma, R., see Ruijten, M.W.M.M. (93) 299
 Kitagawa, H. and Møller, A.R.
 Conduction pathways and generators of magnetic evoked spinal cord potentials: a study in monkeys (93) 57
 Koelman, J.H.T.M., see Hilgevoord, A.A.J. (93) 202
 Koelman, J.H.T.M., see Willemse, R.B. (93) 440
 Kogawa, S., see Shimizu, T. (93) 345
 Kossev, A., Elek, J.M., Wohlfarth, K., Schubert, M., Dengler, R. and Wolf, W.
 Assessment of human motor unit twitches – a comparison of spike-triggered averaging and intramuscular microstimulation (93) 100
 Kufta, C., see Toro, C. (93) 380
- Leandri, M., Schizzi, R. and Favale, E.
 Blink reflex far fields mimicking putative cortical trigeminal evoked potentials (93) 240
 Leggio, M.G., see Di Lazzaro, V. (93) 27
 Leis, A.A.
 Conduction abnormalities detected by silent period testing (93) 444
 Leonard, C.T., Kane, J., Perdaems, J., Frank, C., Graetzer, D.G. and Moritani, T.
 Neural modulation of muscle contractile properties during fatigue: afferent feedback dependence (93) 209
 Liao, K.-K., see Lin, Y.-Y. (93) 404
 Liguori, R., see Johnsen, B. (93) 155
 Lin, Y.-Y., Liao, K.-K., Wang, S.-J., Tang, S., Tsai, C.-P. and Wu, Z.-A.
 Masseter silent period: a study of magnetic stimulation (93) 404
 Loening-Baucke, V., Read, N.W., Yamada, T. and Barker, A.T.
 Evaluation of the motor and sensory components of the pudendal nerve (93) 35
- Maccabee, P.J., see Amassian, V.E. (93) 21
 Maccabee, P.J., see Roth, B.J. (93) 68
 Machetanz, J., see Bischoff, C. (93) 15
 Machetanz, J., see Meyer, B.-U. (93) 372
 Maegaki, Y., Inagaki, M. and Takeshita, K.
 Cervical magnetic stimulation in children and adolescents: normal values and evaluation of the proximal lesion of the peripheral motor nerve in cases with polyradiculoneuropathy (93) 318
 Magistris, M.R., see Glocker, F.X. (93) 113
 Marg, E., see Rudiak, D. (93) 358
 Mashiko, T., see Hashimoto, I. (93) 459
 Matsunami, K., see Suzuki, M. (93) 218
 Mavroudakis, N., Caroyer, J.M., Brunko, E. and Zegers de Beyl, D.
 Effects of diphenylhydantoin on motor potentials evoked with magnetic stimulation (93) 428
 Maxwell, R., see Toro, C. (93) 390
 Mazzini, L. and Schieppati, M.
 Short-latency neck muscle responses to vertical body tilt in normal subjects and in patients with spasmodic torticollis (93) 265
 Meyer, B.-U., Rörich, S. and Machetanz, J.
 Reduction of corticospinal excitability by magnetic stimulation over the cerebellum in patients with large defects of one cerebellar hemisphere (93) 372
 Meyer, B.-U., see Bischoff, C. (93) 15
 Meyer, B.-U., see Werhahn, K.J. (93) 138
 Michels, R.P.J., see Ruijten, M.W.M.M. (93) 306
 Milner, T.E., see De la Barrera, E.J. (93) 91
 Misra, U.K. and Pandey, C.M.
 H reflex studies in neurolathyrism (93) 281
 Mizuta, T., see Hashimoto, I. (93) 459
 Molinari, M., see Di Lazzaro, V. (93) 27
 Møller, A.R., see Kitagawa, H. (93) 57
 Moritani, T., see Leonard, C.T. (93) 209
 Mortifee, P., Stewart, H., Schulzer, M. and Eisen, A.
 Reliability of transcranial magnetic stimulation for mapping the human motor cortex (93) 131

- Nardone, A., see Schieppati, M. (93) 286
 Nardone, R., see Di Lazzaro, V. (93) 27
 Nielsen, J.F.
 Standardization of facilitation of compound muscle action potentials using a modified myometer during magnetic stimulation in healthy volunteers (93) 75
 Nihom, J., see De Weerd, A.W. (93) 276
 Nilsson, J., see Panizza, M. (93) 147
 Nix, W., see Johnsen, B. (93) 155
- Odergren, T., Tollbäck, A. and Borg, J.
 Electromyographic single motor unit potentials after repeated botulinum toxin treatments in cervical dystonia (93) 325
 Ojakangas, C., see Toro, C. (93) 390
 Okazaki, H., see Hashimoto, I. (93) 459
 Olesen, J., see Jensen, R. (93) 335
 Ongerboer de Visser, B.W., see Hilgevoord, A.A.J. (93) 202
 Ongerboer de Visser, B.W., see Ruijten, M.W.M.M. (93) 306
 Ongerboer de Visser, B.W., see Willemse, R.B. (93) 440
 Østergaard, L., Fuglsang-Frederiksen, A., Werdelin, L., Sjö, O. and Winkel, H.
 Quantitative EMG in botulinum toxin treatment of cervical dystonia. A double-blind, placebo-controlled study (93) 434
 Otte, G., see Johnsen, B. (93) 155
- Palmeri, A., see Kaluzny, P. (93) 450
 Pandey, C.M., see Misra, U.K. (93) 281
 Panizza, M., Nilsson, J., Roth, B.J., Rothwell, J. and Hallett, M.
 The time constants of motor and sensory peripheral nerve fibers measured with the method of latent addition (93) 147
 Paradiso, C., see Rossi, S. (93) 330
 Pascual-Leone, A., Cohen, L.G., Brasil-Neto, J.P. and Hallett, M.
 Non-invasive differentiation of motor cortical representation of hand muscles by mapping of optimal current directions (93) 42
 Pascual-Leone, A., Cohen, L.G., Brasil-Neto, J.P., Valls-Solé, J. and Hallett, M.
 Differentiation of sensorimotor neuronal structures responsible for induction of motor evoked potentials, attenuation in detection of somatosensory stimuli, and induction of sensation of movement by mapping of optimal current directions (93) 230
 Passero, S., see Rossi, S. (93) 330
 Perdaems, J., see Leonard, C.T. (93) 209
 Pierrot-Deseilligny, E., see Gracies, J.M. (93) 353
 Ponsford, S.
 Medial (cutaneous) branch of deep common peroneal nerve: recording technique and a case report (93) 159
 Poortvliet, D.C.J., see De Weerd, A.W. (93) 276
 Priori, A., see Werhahn, K.J. (93) 138
 Proença, J., see Johnsen, B. (93) 155
 Pruijs-Brands, A., see Ruijten, M.W.M.M. (93) 306
- Quatralé, R., see Valzania, F. (93) 312
- Read, N.W., see Loening-Baucke, V. (93) 35
 Restuccia, D., see Di Lazzaro, V. (93) 27
 Reulen, J., see Van der Heijden, A. (93) 163
 Rimpiläinen, I.
 Origin of the facial long latency responses elicited by magnetic stimulation (93) 121
 Robain, G., see Gracies, J.M. (93) 353
 Röricht, S., see Meyer, B.-U. (93) 372
 Rösler, K.M., see Glocker, F.X. (93) 113
 Ross, H.F., see Fellows, S.J. (93) 106
 Rossi, S., Giannini, F., Passero, S., Paradiso, C., Battistini, N. and Cioni, R.
 Sensory neural conduction of median nerve from digits and palm stimulation in carpal tunnel syndrome (93) 330
- Roth, B.J., Maccabee, P.J., Eberle, L.P., Amassian, V.E., Hallett, M., Cadwell, J., Anselmi, G.D. and Tatarian, G.T.
 In vitro evaluation of a 4-leaf coil design for magnetic stimulation of peripheral nerve (93) 68
 Roth, B.J., see Panizza, M. (93) 147
 Roth, G.
 Repetitive discharge due to self-ephaptic excitation of a motor unit (93) 1
 Rothwell, J., see Panizza, M. (93) 147
 Rothwell, J.C., see Amassian, V.E. (93) 21
 Rothwell, J.C., see Werhahn, K.J. (93) 138
 Rozeman, C.A.M., see De Weerd, A.W. (93) 276
 Rudell, A.P., see Amassian, V.E. (93) 21
 Rudiak, D. and Marg, E.
 Finding the depth of magnetic brain stimulation: a re-evaluation (93) 358
 Ruijten, M.W.M.M., De Haan, G.-J., Michels, R.P.J., Pruijs-Brands, A., Ongerboer de Visser, B.W. and Verberk, M.M.
 Motor nerve refractory period distribution assessed by two techniques in diabetic polyneuropathy (93) 306
 Ruijten, M.W.M.M., Sallé, H.J.A. and Kingma, R.
 Comparison of two techniques to measure the motor nerve refractory period distribution (93) 299
- Saito, Y., see Shimizu, T. (93) 345
 Sallé, H.J.A., see Ruijten, M.W.M.M. (93) 299
 Santangelo, M., see Valzania, F. (93) 312
 Sato, S., see Toro, C. (93) 380
 Schieppati, M., Hugon, M., Grasso, M., Nardone, A. and Galante, M.
 The limits of equilibrium in young and elderly normal subjects and in parkinsonians (93) 286
 Schieppati, M., see Mazzini, L. (93) 265
 Schimrigk, K., see Jost, W.H. (93) 237
 Schizzi, R., see Leandri, M. (93) 240
 Schofield, I., see Johnsen, B. (93) 155
 Schubert, M., see Kossev, A. (93) 100
 Schulzer, M., see Mortifee, P. (93) 131
 Schwarz, M., see Timmann, D. (93) 7
 Shimizu, T., Takahashi, Y., Kogawa, S., Takahashi, K., Kanbayashi, T., Saito, Y. and Hishikawa, Y.
 Muscle sympathetic nerve activity during apneic episodes in patients with obstructive sleep apnea syndrome (93) 345
 Sieben, G., see Johnsen, B. (93) 155
 Sjö, O., see Østergaard, L. (93) 434
 Somasundaram, M., see Amassian, V.E. (93) 21
 Spaans, F., see Van der Heijden, A. (93) 163
 Stegeman, D.F., Gootzen, T.H.J.M., Theeuwen, M.M.H.J. and Vingerhoets, H.J.M.
 Intramuscular potential changes caused by the presence of the recording EMG needle electrode (93) 81
 Stewart, H., see Mortifee, P. (93) 131
 Strafella, A.P., see Valzania, F. (93) 312
 Suzuki, M., Yamazaki, Y. and Matsunami, K.
 Relationship between force and electromyographic activity during rapid isometric contraction in power grip (93) 218
- Takahashi, K., see Shimizu, T. (93) 345
 Takahashi, Y., see Shimizu, T. (93) 345
 Takeshita, K., see Maegaki, Y. (93) 318
 Tang, S., see Lin, Y.-Y. (93) 404
 Tassinari, C.A., see Valzania, F. (93) 312
 Tatarian, G.T., see Roth, B.J. (93) 68
 Thatcher, R., see Toro, C. (93) 380
 Theeuwen, M.M.H.J., see Stegeman, D.F. (93) 81
 Thilmann, A.F., see Fellows, S.J. (93) 106
 Thompson, P.D., see Werhahn, K.J. (93) 138

- Timmann, D., Belting, C., Schwarz, M. and Diener, H.C.
 Influence of visual and somatosensory input on leg EMG responses in dynamic posturography in normals (93) 7
- Tjandra, Y.I., see De Weerd, A.W. (93) 276
- Tollbäck, A., see Odergren, T. (93) 325
- Tolosa, E.S., see Valls-Solé, J. (93) 421
- Tonali, P., see Di Lazzaro, V. (93) 27
- Toro, C., Cox, C., Friehs, G., Ojakangas, C., Maxwell, R., Gates, J.R., Gumnit, R.J. and Ebner, T.J.
 8-12 Hz rhythmic oscillations in human motor cortex during two-dimensional arm movements: evidence for representation of kinematic parameters (93) 390
- Toro, C., Deuschl, G., Thatcher, R., Sato, S., Kufta, C. and Hallett, M.
 Event-related desynchronization and movement-related cortical potentials on the ECoG and EEG (93) 380
- Trippel, M., see Dietz, V. (93) 49
- Tsai, C.-P., see Lin, Y.-Y. (93) 404
- Ugawa, Y., Hanajima, R. and Kanazawa, I.
 Motor cortex inhibition in patients with ataxia (93) 225
- Valls-Solé, J., Alvarez, R. and Tolosa, E.S.
 Responses of the soleus muscle to transcranial magnetic stimulation (93) 421
- Valls-Solé, J., see Pascual-Leone, A. (93) 230
- Valzania, F., Quatralé, R., Strafella, A.P., Bombardi, R., Santangelo, M., Tassinari, C.A. and De Grandis, D.
 Pattern of motor evoked response to repetitive transcranial magnetic stimulation (93) 312
- Van der Heijden, A., Spaans, F. and Reulen, J.
 Fasciculation potentials in foot and leg muscles of healthy young adults (93) 163
- Van der Maas, A.P.C., see De Weerd, A.W. (93) 276
- Veloso, M., see Johnsen, B. (93) 155
- Verberk, M.M., see Ruijten, M.W.M.M. (93) 306
- Vila, A., see Johnsen, B. (93) 155
- Vingerhoets, H.J.M., see Stegeman, D.F. (93) 81
- Vingtoft, S., see Johnsen, B. (93) 155
- Wang, S.-J., see Lin, Y.-Y. (93) 404
- Werdelin, L., see Østergaard, L. (93) 434
- Werhahn, K.J., Fong, J.K.Y., Meyer, B.-U., Priori, A., Rothwell, J.C., Day, B.L. and Thompson, P.D.
 The effect of magnetic coil orientation on the latency of surface EMG and single motor unit responses in the first dorsal interosseous muscle (93) 138
- Wiesendanger, M., see Kaluzny, P. (93) 450
- Willemse, R.B., Koelman, J.H.T.M., Bour, L.J. and Ongerboer de Visser, B.W.
 Independence of soleus H-reflex tests in control and spastic subjects shown by principal components analysis (93) 440
- Winkel, H., see Østergaard, L. (93) 434
- Wohlfarth, K., see Kossev, A. (93) 100
- Wolf, W., see Kossev, A. (93) 100
- Wu, Z.-A., see Lin, Y.-Y. (93) 404
- Yamada, T., see Loening-Baucke, V. (93) 35
- Yamazaki, Y., see Suzuki, M. (93) 218
- Zegers de Beyl, D., see Mavroudakis, N. (93) 428
- Zidek, W., see Husstedt, I.W. (93) 169
- Zuniga, G., see Clouston, P.D. (93) 245
- Zuniga, G., see Kiers, L. (93) 255

Index of Subjects

VOLUME 93 (EMG & Motor Control), 1994

(Abstracts from Society Proceedings are not included)

Afferents

- muscle contractile properties during fatigue, 209
- recruitment of group I fibers at high intensities in man, 353

Age

- limits of equilibrium in stance, 286
- quantitative EMG levels in pericranial muscles, 175

Agenesis of cerebellum, 372

Agonist and antagonist muscle activation in spasticity, 106

AIDS, *see* HIV infection

Anal sphincter, electrophysiology, 237

Anal stimulation, 35

Antiepileptic drugs

- diphenylhydantoin and motor evoked potentials, 428

Apnea syndrome

- muscle sympathetic nerve activity, 345

Arousal and obstructive sleep apnea syndrome, 345

Assimilation effects

- reaction time study of bimanual coupling, 450

Ataxia and motor cortex inhibition, 225

Auditory stimulation

- EMG responses to sudden fall and startle, 409

Bell's palsy, magnetic stimulation, 113

Biceps

- skinfold thickness and surface EMG, 91

Bimanual coordination and reaction time study, 450

Blink reflex

- and trigeminal EPs, 240
- EMG responses to sudden fall and startle, 409

Book reviews, 161, 243

Botulinum toxin and cervical dystonia, 325, 434

Brain-stem

- EMG responses to sudden fall and startle, 409

Carpal tunnel syndrome and sensory conduction, 330

Central motor conduction time

- diphenylhydantoin and motor evoked potentials, 428
- electrophysiology of the external anal sphincter, 237
- soleus muscle responses to magnetic stimulation, 421

Cerebellum

- cerebellar stimulation in man, 27
- magnetic stimulation, 372
- motor cortex inhibition in ataxia, 225

Cervical

- botulinum toxin in cervical dystonia, 325, 434
- motor EPs to cervical magnetic stimulation in children, 318

Children

- motor EPs to cervical magnetic stimulation, 318

Coil orientation and EMG responses, 138

Collision neurography

- motor refractory period in diabetic polyneuropathy, 306
- 2 techniques on motor refractory period, 299

Compound action potentials

- early inflammatory demyelinating polyneuropathy, 245
- muscle responses to electrical and magnetic stimulations, 417
- standardization of facilitation using a myometer, 75

Computation of peripheral nerve action fields, 459

Conditioning affects statistics of EMG, 188

Conduction velocity

- compound muscle action potentials in early AIDP, 245
- electrophysiology of the external anal sphincter, 237
- HIV polyneuropathy and paired stimulation, 169
- H reflex in uremia, 276
- motor EPs to cervical magnetic stimulation in children, 318
- motor refractory period in diabetic polyneuropathy, 306
- sensory conduction in carpal tunnel syndrome, 330
- 2 techniques on motor refractory period, 299

Cortical stimulation

- magnetic coil inhibition of human visual cortex, 21
- motor and sensory components of the pudendal nerve, 35
- motor EP pattern to repetitive magnetic stimulation, 312
- reliability of transcranial magnetic stimulation for mapping, 131
- representation of kinematic parameters in motor cortex, 390
- soleus muscle responses to magnetic stimulation, 421

Corticospinal excitability

- magnetic stimulation over the cerebellum, 372

Cross-correlation

- skinfold thickness and surface EMG, 91

Current direction

- and motor mapping of hand muscles, 42
- sensory and motor map differentiation, 230

Cutaneous branch of deep common peroneal nerve, 159

Cutaneous perception

- masseter silent period by magnetic stimulation, 404

Cycle number

- conditioning affects statistics of EMG, 188

Deep common peroneal nerve, 159

Demyelinating neuropathies, 245, 255

Denervation

- repetitive discharge and self-ephaptic excitation, 1

Diabetic polyneuropathy, motor refractory period, 306

Diagnosis

- early inflammatory demyelinating polyneuropathy, 245
- F wave parameters in demyelinating neuropathies, 255
- sensory conduction in carpal tunnel syndrome, 330

Diphenylhydantoin and motor evoked potentials, 428

Double stimulation

- and HIV polyneuropathy, 169
- motor cortex inhibition in ataxia, 225
- muscle responses to electrical and magnetic stimulations, 417

Doublet

- repetitive discharge and self-ephaptic excitation, 1

Dystonia

- EMG after botulinum toxin, 325, 434
- neck muscle responses, 265

Early onset of HIV polyneuropathy, 169

ECoG

- movement-related ERD, 380

EEG

- representation of kinematic parameters in motor cortex, 390

Elderly, *see* Age

Electrical stimulation

- cerebellar stimulation in man, 27
- magnetic measurement of peripheral nerve action fields, 459
- muscle responses to electrical and magnetic stimulations, 417
- recruitment of group I fibers at high intensities in man, 353

Electric field

- depth of magnetic brain stimulation, 358
- magnetic coil inhibition of human visual cortex, 21

Electrode

- consequence of the EMG needle electrode, 81

EMG

- after botulinum toxin in cervical dystonia, 325, 434
- anticipatory EMG activities of postural adjustment, 184
- conditioning affects statistics of EMG, 188
- consequence of the EMG needle electrode, 81
- current directions and motor mapping of hand muscles, 42
- differences in handling of EMG examination, 155
- isometric muscle activation in spasticity, 106
- limits of equilibrium in stance, 286
- muscle contractile properties during fatigue, 209
- neck muscle responses in normals and dystonics, 265
- of pericranial muscles in headache, 335
- of the upper limb muscles, 49
- postural EMG in leg muscles, 7
- responses to sudden fall and startle, 409
- sensory and motor map differentiation, 230
- silent period testing of conduction abnormalities, 444
- *see also* Surface EMG

Ephaptic excitation and repetitive discharge, 1

Epidemiology

- differences in handling of EMG examination, 155
- qEMG levels in pericranial muscles, 175
- qEMG of pericranial muscles in headache, 335

Epilepsy

- diphenylhydantoin and motor evoked potentials, 428

Equilibrium limits in stance, 286

Event-related desynchronization, 380

Evoked potentials

- blink reflex and trigeminal EPs, 240
- motor and sensory components of the pudendal nerve, 35
- silent period testing of conduction abnormalities, 444

Examination techniques, interlaboratory differences, 155

Facial muscles

- EMG responses to sudden fall and startle, 409

Facial nerve

- magnetic stimulation in Bell's palsy, 113
- long-latency responses, 121

Facilitation

- muscle responses to electrical and magnetic stimulations, 417
- standardization of facilitation using a myometer, 75

Fall

- EMG responses to sudden fall and startle, 409

Far-field potentials

- blink reflex and trigeminal EPs, 240

Fasciculation potentials in foot and leg muscles, 163

Fatigue and muscle contractile properties, 209

Filtering

- conditioning affects statistics of EMG, 188

Finger movements

- reaction time study of bimanual coupling, 450

Foot muscles, fasciculation potentials, 163

Force

- control of rapid contractions in power grip, 218

F wave parameters in demyelinating neuropathies, 255

Gait

- conditioning affects statistics of EMG, 188

Guillain-Barré syndrome

- compound muscle action potentials in early AIDP, 245
- F wave parameters in demyelinating neuropathies, 255

Hand

- magnetic stimulation over the cerebellum, 372
- reaction time study of bimanual coupling, 450
- sensory conduction in carpal tunnel syndrome, 330

Hand muscles

- control of rapid contractions in power grip, 218
- current directions and motor mapping, 42

Headache

- qEMG levels in pericranial muscles, 175
- qEMG of pericranial muscles, 335

Head stabilization in normals and dystonics, 265

Hemiparesis and isometric muscle activation, 106

HIV polyneuropathy and paired stimulation, 169

Hoffmann reflex

- in neurolathyrism, 281
- in uremia, 276
- muscle contractile properties during fatigue, 209
- normalized H-recruitment curves in spasticity, 202
- soleus H reflex in spastic subjects, 440

Hypertension

- obstructive sleep apnea syndrome, 345

Infarction

- magnetic stimulation over the cerebellum, 372

Inhibitory effects

- magnetic coil inhibition of human visual cortex, 21
- magnetic stimulation over the cerebellum, 372
- motor cortex inhibition in ataxia, 225
- motor EP pattern to repetitive magnetic stimulation, 312
- sensory and motor map differentiation, 230
- silent period testing of conduction abnormalities, 444

Interhemispheric transfer and bimanual coupling, 450

Interlaboratory variation in handling of EMG examination, 155

Intramuscular microstimulation

- twitches of human motor units, 100

Isometric contraction

- in power grip, 218
- in spasticity, 106

Latent addition

- nerve fiber time constant, 147

Lateralization

- reaction time study of bimanual coupling, 450

Lathyrism and H reflex, 281

Leg

- anticipatory EMG activities of postural adjustment, 184
- conditioning affects statistics of EMG, 188
- fasciculation potentials in leg muscles, 163
- postural EMG in leg muscles, 7
- recruitment of group I fibers at high intensities in man, 353

Lesions

- cerebellar stimulation in man, 27
- motor EPs to cervical magnetic stimulation in children, 318

Long-latency facial responses, 121

Lumbosacral roots

- motor and sensory components of the pudendal nerve, 35

Magnetic measurement of peripheral nerve action fields, 459

Magnetic stimulation

- cerebellar stimulation in man, 27
- coil orientation and EMG responses, 138
- current directions and motor mapping of hand muscles, 42

- depth of magnetic brain stimulation, 358
- diphenylhydantoin and motor evoked potentials, 428
- electrophysiology of the external anal sphincter, 237
- evoked spinal cord potentials in monkey, 57
- facial long-latency responses, 121
- in Bell's palsy, 113
- magnetic coil inhibition of human visual cortex, 21
- masseter silent period by magnetic stimulation, 404
- motor cortex inhibition in ataxia, 225
- motor EP pattern to repetitive magnetic stimulation, 312
- motor EPs to cervical magnetic stimulation in children, 318
- muscle responses to electrical and magnetic stimulations, 417
- over the cerebellum, 372
- reliability of transcranial magnetic stimulation for mapping, 131
- repetitive magnetic nerve stimulation, 15
- sensory and motor map differentiation, 230
- soleus muscle responses to magnetic stimulation, 421
- standardization of facilitation using a myometer, 75
- with a 4-leaf coil, 68

Mapping, *see* Topographic mapping

Masseter silent period by magnetic stimulation, 404

Median nerve

- magnetic measurement of peripheral nerve action fields, 459
- nerve fiber time constant, 147
- sensory conduction in carpal tunnel syndrome, 330

Microneurography in obstructive sleep apnea syndrome, 345

Migraine

- qEMG of pericranial muscles in headache, 335

Monkey, magnetic evoked spinal cord potentials, 57

Motoneurons

- H reflex in neurolathyrism, 281
- motor refractory period in diabetic polyneuropathy, 306
- soleus muscle responses to magnetic stimulation, 421
- 2 techniques on motor refractory period, 299

Motor control of rapid contractions in power grip, 218

Motor cortex

- cerebellar stimulation in man, 27
- current directions and motor mapping of hand muscles, 42
- depth of magnetic brain stimulation, 358
- magnetic coil orientation and EMG responses, 138
- magnetic evoked spinal cord potentials in monkey, 57
- magnetic stimulation over the cerebellum, 372
- motor cortex inhibition in ataxia, 225
- reliability of transcranial magnetic stimulation for mapping, 131
- representation of kinematic parameters, 390
- sensory and motor map differentiation, 230

Motor evoked potentials

- and diphenylhydantoin, 428
- cervical magnetic stimulation in children, 318
- facial long-latency responses, 121
- magnetic coil orientation and EMG responses, 138
- magnetic evoked spinal cord potentials in monkey, 57
- motor and sensory components of the pudendal nerve, 35
- sensory and motor map differentiation, 230
- standardization of facilitation using a myometer, 75
- to repetitive magnetic stimulation, 312

Motor nerve

- motor refractory period in diabetic polyneuropathy, 306
- nerve fiber time constant, 147
- 2 techniques on motor refractory period, 299

Motor unit

- EMG after botulinum toxin in cervical dystonia, 325
- magnetic coil orientation and EMG responses, 138
- qEMG after botulinum toxin in cervical dystonia, 434
- recruitment of group I fibers at high intensities in man, 353
- repetitive discharge and self-ephaptic excitation, 1
- twitches of human motor units, 100

Movement

- movement-related ERD, 380
- representation of kinematic parameters in motor cortex, 390

Muscle

- consequence of the EMG needle electrode, 81
- contractile properties during fatigue, 209
- current directions and motor mapping of hand muscles, 42
- fasciculation potentials in foot and leg muscles, 163
- isometric muscle activation in spasticity, 106
- masseter silent period by magnetic stimulation, 404
- normalized H-recruitment curves in spasticity, 202
- postural EMG in leg muscles, 7
- qEMG levels in pericranial muscles, 175
- repetitive discharge and self-ephaptic excitation, 1
- responses to electrical and magnetic stimulations, 417
- soleus muscle responses to magnetic stimulation, 421
- standardization of facilitation using a myometer, 75
- sympathetic nerve activity in obstructive sleep apnea syndrome (OSAS), 345
- twitches of human motor units, 100
- upper limb muscles EMG, 49

Muscle contraction

- qEMG of pericranial muscles in headache, 335

Myasthenia gravis, repetitive magnetic nerve stimulation, 15

Neck muscles

- responses in normals and dystonics, 265
- responses to sudden fall and startle, 409

Nerve

- depth of magnetic brain stimulation, 358
- motor refractory period in diabetic polyneuropathy, 306
- nerve fiber time constant, 147
- recruitment of group I fibers at high intensities in man, 353
- repetitive magnetic nerve stimulation, 15
- 2 techniques on motor refractory period, 299
- *see also* Conduction velocity, Peripheral nerve

Neurodegenerative disorders

- H reflex in neurolathyrism, 281

Neurography

- magnetic stimulation in Bell's palsy, 113

Neuromuscular transmission

- repetitive magnetic nerve stimulation, 15

Neuropathy

- differences in handling of EMG examination, 155
- silent period testing of conduction abnormalities, 444
- *see also* Polyneuropathy

Obstructive sleep apnea syndrome, 345

Paraplegia

- H reflex in neurolathyrism, 281

Parkinsonism and limits of equilibrium in stance, 286

Pericranial muscles

- qEMG in headache, 335
- qEMG levels, 175

Peripheral nerves

- magnetic measurement of peripheral nerve action fields, 459
- magnetic stimulation with a 4-leaf coil, 68
- motor EPs to cervical magnetic stimulation in children, 318
- muscle responses to electrical and magnetic stimulations, 417
- recruitment of group I fibers at high intensities in man, 353
- silent period testing of conduction abnormalities, 444

Peroneal nerve

- HIV polyneuropathy and paired stimulation, 169
- medial branch of deep common peroneal nerve, 159
- muscle sympathetic nerve activity in obstructive sleep apnea syndrome, 345

Polyneuropathy

- compound muscle action potentials in early AIDP, 245
- early inflammatory demyelinating polyneuropathy, 245
- F wave parameters in demyelinating neuropathies, 255
- HIV polyneuropathy and paired stimulation, 169
- H reflex in uremia, 276

Polyradiculoneuropathy

- motor EPs to cervical magnetic stimulation in children, 318

Posture

- anticipatory EMG activities, 184
- EMG in leg muscles, 7
- limits of equilibrium in stance, 286
- neck muscle responses in normals and dystonics, 265

Power grip, control of rapid contractions, 218

Principal component analysis

- soleus H reflex in spastic subjects, 440

Pudendal nerve

- electrophysiology of the external anal sphincter, 237
- motor and sensory components, 35

Pyramidal tract

- magnetic evoked spinal cord potentials in monkey, 57
- soleus muscle responses to magnetic stimulation, 421

Quadrupolar pattern

- magnetic measurement of peripheral nerve action fields, 459

Quantitative EMG

- after botulinum toxin in cervical dystonia, 434
- anticipatory EMG activities of postural adjustment, 184
- of pericranial muscles in headache, 335
- qEMG levels in pericranial muscles, 175

Quantitative studies

- compound muscle action potentials in early AIDP, 245
- F wave parameters in demyelinating neuropathies, 255

Radiculopathy

- differences in handling of EMG examination, 155

Reaction time study of bimanual coupling, 450

Recruitment

- normalized H-recruitment curves in spasticity, 202

Reflex

- normalized H-recruitment curves in spasticity, 202
- upper limb muscle EMG, 49

Refractory period

- motor refractory period in diabetic polyneuropathy, 306
- 2 techniques on motor refractory period, 299

Renal failure and H reflex, 276

Repetitive discharge and self-ephaptic excitation, 1

Sacral reflex, motor and sensory components, 35

Sensory cortex

- sensory and motor map differentiation, 230

Sensory nerve

- medial branch of deep common peroneal nerve, 159
- nerve fiber time constant, 147
- silent period testing of conduction abnormalities, 444

Sex differences

- quantitative EMG levels in pericranial muscles, 175

Silent period

- masseter silent period by magnetic stimulation, 404
- muscle responses to electrical and magnetic stimulations, 417
- testing of conduction abnormalities, 444

Simulation

- magnetic measurement of peripheral nerve action fields, 459

Single fiber needle EMG, consequences, 81

Skinfold thickness and surface EMG, 91

Sleep apnea syndrome, 345

Soleus muscle

- contractile properties during fatigue, 209

- H reflex in spastic subjects, 440

- normalized H-recruitment curves in spasticity, 202

- responses to magnetic stimulation, 421

Somatosensory evoked potentials

- silent period testing of conduction abnormalities, 444

Somatosensory input

- postural EMG in leg muscles, 7

Spasticity

- H reflex in neurolathyrism, 281
- isometric muscle activation, 106
- normalized H-recruitment curves, 202
- soleus H reflex, 440

Spike-triggered averaging

- twitches of human motor units, 100

Spinal cord

- magnetic evoked potentials in monkey, 57
- normalized H-recruitment curves in spasticity, 202

Startle

- EMG responses, 409

Statistical EMG analysis and conditioning, 188

Strength-duration curve

- depth of magnetic brain stimulation, 358

Stroke

- isometric muscle activation in spasticity, 106

Subdural recording

- movement-related ERD, 380
- representation of kinematic parameters in motor cortex, 390

Sural nerve

- HIV polyneuropathy and paired stimulation, 169

Surface electrodes

- recruitment of group I fibers at high intensities in man, 353

Surface EMG

- control of rapid contractions in power grip, 218
- fasciculation potentials in foot and leg muscles, 163
- magnetic coil orientation and EMG responses, 138
- qEMG levels in pericranial muscles, 175
- skinfold thickness and surface EMG, 91

Sympathetic nerve activity in obstructive sleep apnea syndrome, 345

Task-dependent modulation of upper limb muscles EMG, 49

Tibial nerve fiber time constant, 147

Time constant of nerve fiber, 147

Topographic mapping

- current directions and motor mapping of hand muscles, 42
- magnetic measurement of peripheral nerve action fields, 459
- reliability of transcranial magnetic stimulation, 131
- sensory and motor map differentiations, 230

Torticollis

- neck muscle responses, 265
- qEMG after botulinum toxin, 434

Trigeminal nerve

- blink reflex and trigeminal EPs, 240
- facial long-latency responses, 121

Turns-amplitude analysis

- qEMG after botulinum toxin in cervical dystonia, 434

Twitch parameters of human motor units, 100

Ulnar nerve fiber time constant, 147

Upper limb muscles EMG, 49

Upper mononeuron syndrome

- soleus H reflex in spastic subjects, 440

Uremia and H reflex, 276

Vestibular control

- neck muscle responses in normals and dystonics, 265

Vestibulo-spinal reflex

- EMG responses to sudden fall and startle, 409

Visual cortex, magnetic coil inhibition, 21

Visual input

- postural EMG in leg muscles, 7

Volume conduction and magnetic brain stimulation, 358

Voluntary contraction

- anticipatory EMG activities of postural adjustment, 184

- control of rapid contractions in power grip, 218

- EMG responses to sudden fall and startle, 409

- standardization of facilitation using a myometer, 75

Voluntary movement-related ERD, 380